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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,855	08/21/2003	Chien-Sheng Yang	ADTP0091USA	1854
27765	7590	07/09/2004	EXAMINER	
NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE) P.O. BOX 506 MERRIFIELD, VA 22116				CHAPMAN JR, JOHN E
		ART UNIT		PAPER NUMBER
				2856

DATE MAILED: 07/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/604,855	YANG, CHIEN-SHENG
	Examiner	Art Unit
	John E Chapman	2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-7 and 9 is/are allowed.
- 6) Claim(s) 10-15, 17 and 19-21 is/are rejected.
- 7) Claim(s) 8, 16 and 18 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 21 August 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/11/04</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

1. The disclosure is objected to because of the following informalities:
Words are run together, for example, “anacceleration” in paragraph 2, and
“piezoresistiveacceleration” in paragraph 4.

Paragraph 7, lines 5, 8 and 10, “22” should be --24--.

Appropriate correction is required.

2. The drawings are objected to because block element 24 in Fig. 1 and 46 in Fig. 2 should be labeled using an appropriate legend.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the thin film transistor display region (claims 10 and 21), printed circuit board (claim 19) and flexible printed circuit board (claims 20 and 21) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The

replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. Claim 8 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form. Claim 1 recites a polysilicon beam structure and a polysilicon supporter.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 10 and 19-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 10 and 21, it is not clear that an acceleration sensor can detect a variation of pressure.

Claims 19 and 20 are inconsistent with claim 11, wherein the control circuit is positioned on the insulating substrate.

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 11, 14 and 15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Corkum et al.

Corkum et al. discloses a capacitive acceleration sensor comprising an insulating substrate 12, a cantilever beam structure 14, and a conditioning circuit 12e positioned on the insulating substrate.

9. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Horibata et al.

The only difference between the claimed invention and the prior art consists in the selection of material for electrode 12c of Corkum et al. Horibata et al. teaches forming an electrode 31 on a glass substrate by evaporating aluminum on the glass substrate (col. 8, lines 52-54). It would have been obvious in view of Horibata et al. to form the electrode 12c of Corkum et al. by evaporating aluminum on the glass substrate 12.

10. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Pierre et al. or Cahill et al.

The only difference between the claimed invention and the prior art consists in the selection of material for cantilever beam structure 14 of Corkum et al. Corkum et al. teaches that any suitable material may be used for the electrically conductive sensor elements (col. 4, lines 25-27), and Pierre teaches the suitability of polysilicon for a cantilever beam structure. Accordingly, merely to select polysilicon for the cantilever beam structure 14 of Corkum et al. would have been obvious to one having ordinary skill in the art.

11. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Nakatani et al.

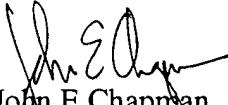
The only difference between the claimed invention and the prior art consists in the selection of material for the insulating substrate 12 of Corkum et al. Nakatani et al. teaches selecting either quartz or glass for use as a substrate according to specific requirements in the temperature characteristics of the material of the sensor (col. 5, lines 45-53). Accordingly, it would have been obvious in view of Nakatani et al. to select quartz for the insulating substrate 12 of Corkum et al. according to specific requirements in the temperature characteristics of the material of the sensor.

12. Claims 16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

13. Claims 1-7 and 9 are allowed.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John E Chapman whose telephone number is (571) 272-2191. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



John E Chapman
Primary Examiner
Art Unit 2856